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## PATENT COOPERATION TREATY

To:

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPTER I OR CHAPTER II
OF THE PATENT COOPERATION TREATY)

(PCT Rules 44bis.3(c) and 72.2)

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SHIMIZU, Hatsushi Kantetsu Tsukuba Bldg. 6F 1-1-1, Oroshi-machi Tsuchiura-shi, Ibaraki 3000847 JAPON

Date of mailing (day/month/year) 31 August 2006 (31.08.2006)	
Applicant's or agent's file reference M3-A0305P	IMPORTANT NOTIFICATION
International application No. PCT/JP2005/000567	International filing date (day/month/year) 19 January 2005 (19.01.2005)
Applicant  MEDICAL AND BIO	DLOGICAL LABORATORIES CO., LTD. et al

l.	Transmittal	of the	translation	to	the applicant.
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]	the international Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter I).
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The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).

### 2. Transmittal of the copy of the translation to the designated or elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

#### None

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AE, AG, AL, AM, AP, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EA, EC, EE, EG, EP, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

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### PATENT COOPERATION TREATY

# PCT

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference M3-A0305P	FOR FURTHER ACTION	See item 4 below				
International application No. PCT/JP2005/000567	International filing date (day/month/year) 19 January 2005 (19.01.2005)	Priority date (day/month/year) 19 January 2004 (19.01.2004)				
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237						
Applicant MEDICAL AND BIOLOGICAL LABORATORIES CO., LTD.						

		· · · · · · · · · · · · · · · · · · ·						
1.	This international preliminary re International Searching Authorit	port on patentability (Chapte y under Rule 44 bis.1(a).	r I) is issued by the International Bureau on behalf of the					
2.	This REPORT consists of a total of 6 sheets, including this cover sheet.  In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference							
	to the international preliminary i	eport on patentability (Chapt	er I) instead.					
3.	This report contains indications	relating to the following item	s:					
	Box No. I	Basis of the report						
	Box No. II	Priority						
	Box No. III	Non-establishment of opinapplicability	nion with regard to novelty, inventive step and industrial					
	Box No. IV	Lack of unity of invention						
	Box No. V		Article 35(2) with regard to novelty, inventive step or industrial explanations supporting such statement					
	Box No. VI	Certain documents cited						
	Box No. VII	Certain defects in the inter	national application					
	Box No. VIII	Certain observations on the	e international application					
4.	4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis .2).							
			<b>,</b>					
			Date of issuance of this report 22 August 2006 (22.08.2006)					

Authorized officer

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Masashi Honda

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The International Bureau of WIPO 34, chemin des Colombettes

1211 Geneva 20, Switzerland

## PATENT COOPERATION TREATY

From th	ne NATIONAL SEARCHING	AUTHOR	ITY		TANS		
To:					PCT PCT		
					RITTEN OPINION OF THE IONAL SEARCHING AUTHORITY		
					(PCT Rule 43bis.1)		
		···		Date of mailing (day/month/year)			
Applica	ant's or agent's file reference			FOR FURTHER	CTION		
м3-	-A0305P			FORFORTIERA	See paragraph 2 below		
L	tional application No.		International filing date (	(day/month/year)			
	'/JP2005/00056		19.01.2005	aaymonin year)	Priority date (day/month/year) 19.01.2004		
Internat	tional Patent Classification (II	PC) or both	national classification an	d IPC			
Applica	ınt						
MED	ICAL AND BIOL	OGICA	L LABORATOR	IES CO., L	TD.		
1.	This opinion contains indic	ations relati	ing to the following items	:			
	Box No. I B	asis of the o	opinion				
	Box No. II Priority						
	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
	Box No. IV L	ack of unity	of invention				
			tement under Rule 43 <i>bis</i> , citations and explanation		ovelty, inventive step or industrial ement		
	Box No. VI Co	ertain docui	ments cited				
	Box No. VII Co	ertain defec	ts in the international app	lication			
	Box No. VIII Co	ertain obser	vations on the internation	al application			
2.	FURTHER ACTION						
	International Preliminary E:	xamining A A and the c	authority ("IPEA") except chosen IPEA has notified	that this does not app	be considered to be a written opinion of the ly where the applicant chooses an Authority other au under Rule $66.1bis(b)$ that written opinions of		
	If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.						
	For further options, see Forn	m PCT/ISA	/220.				
3.	For further details, see notes	s to Form Po	CT/ISA/220.				
Name at	nd mailing address of the ISA	ЛР		Authorized officer			
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International application No.

PCT/JP2005/000567

Вох	No. I	Basis of this opinion
I.	With filed.	regard to the language, this opinion has been established on the basis of the international application in the language in which it was unless otherwise indicated under this item.
		This opinion has been established on the basis of a translation from the original language into the following language  . which is the language of a translation furnished for the purposes of international search (under
		Rule 12.3 and 23.1(b)).
2.	With inven	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed tion, this opinion has been established on the basis of:
	a.	type of material
		a sequence listing
		table(s) related to the sequence listing
	b.	format of material
		in written format
		in computer readable form
	c.	time of filing/furnishing
		contained in the international application as filed.
		filed together with the international application in computer readable form.
	[	furnished subsequently to this Authority for the purposes of search.
3.		In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Addit	ional comments:
	•	
		}
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International application No.
PCT/JP2005/000567

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:
the entire international application
claims Nos. 1-7, 10-13 and 16 (respectively partial)
because:  the said international application, or the said claims Nos. relate to the following subject matter which does not require an international preliminary examination (specify):
the description, claims or drawings (indicate particular elements below) or said claims Nos. (respectively partial) are so unclear that no meaningful opinion could be formed (specify):
the claims, or said claims Nos. 1-7, 10-13 and 16 (respectively partial) are so inadequately supported by the description that no meaningful opinion could be formed.
no international search report has been established for said claims Nos. partial)
the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:
the written form has not been furnished
does not comply with the standard
the computer readable form has not been furnished
does not comply with the standard
the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.
See Supplemental Box for further details.

International application No.
PCT/JP2005/000567

Box	No. V	Reasoned statemer	nt under Ru anations suj	ale 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; opporting such statement	
1.	Statement				
	Novelty (	(N)	Claims	6-19	YES
			Claims	1-5	МО
	Inventive	step (IS)	Claims	6-19	YES
			Claims	1-5	NO
	Industrial	applicability (IA)	Claims	1-19	YES
			Claims		NO

### 2. Citations and explanations:

Document 1: "Enhanced levels of CD154 (CD40 ligand) on platelets in patients with chronic heart failure," (C. Stumpf et al.), Eur. J. Heart Fail, 2003, 5(5), pages 629-637

### Claims 1-5

Document 1 describes an anti-CD61 antibody (see Abstract). Said antibody is considered to the same as the substance relating to the above claims. So, the subject matter of claims 1-5 do not appear to be novel or to involve an inventive step in view of document 1.

International application No.
PCT/JP2005/000567

Box No. VIII

Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

#### Claims 1-6 and 16

What "substance or its derivative" relating to claims 1-6 are concretely like is unknown. So, claims 1-6 are not considered to be described clearly.

As a "substance and its derivative," the substance "having a CD61 protein bonding ability and an effect of inhibiting inflammatory cytokine production" in actually presented in working examples etc. are only a #33 antibody, an anti-CD61 antibody and a F(ab"2) transforming #33 antibody. Except these, what substances fit the above prescription is unknown. Moreover, a person skilled in the art is required to do excessive trial and error when actually verifying that a substance "has a CD61 protein bonding ability and an effect of inhibiting inflammatory cytokine production." So, the subject matters of claims 1-6 and 16 appear to be neither supported by the specification nor disclosed so clearly and sufficiently as to be performed by an expert in the relevant technical field.

In addition, an investigation is not carried out about such an invention whose claims are not clearly described, whose specification is not sufficiently supported and which is not clearly and sufficiently disclosed in the specification.

### Claims 1-6 and 16

What structure in the concrete "derivative" relating to the above claims has is unknown. So, the subject matters of claims 1-6 and 16 do not appear to be clearly described.

Moreover, as for the "derivative," what substances have "a CD61 protein bonding ability and an effect of inhibiting inflammatory cytokine production" is unknown. A person skilled in the art is required to do excessive trial and error when obtaining such substances. So, the subject matters of claims 1-6 and 16 are neither sufficiently supported by the specification nor disclosed so clearly and sufficiently as to be performed by an expert in the relevant technical field.

In addition, an investigation is not carried out about such an invention whose claims are not clearly described, whose specification is not sufficiently supported and which is not clearly and sufficiently disclosed in the specification.

### Claims 7 and 10-13

Claim 7 describes an anti-CD61 antibody coded by "a DNA hybridizing on a stringent condition" and "a DNA coding an amino-acid array in which one or a plurality of amino acids are lacked, added, inserted and/or substituted" in claim 7. Claims 10-13 describe an anti-CD61 antibody whose heavy or light chain is composed of polypeptide containing an amino-acid array in which "one or a plurality of amino acids are lacked, added, inserted and/or substituted." There is a low probability that such varied anti-CD61 antibodies as above have the same activation as an original antibody has. So, what structure in the concrete a DNA or polypeptide corresponding to the DNA or polypeptide regarding to the above claims has is unknown. A person skilled in the art is required to do excessive trial and error when obtaining such a DNA or polypeptide. Therefore, claims 7 and 10-13 do not appear to be clearly described and the subject matters of these claims are neither supported sufficiently by the specification nor disclosed so clearly and sufficiently as to be performed by an expert in the relevant technical filed.

In addition, an investigation is not carried out about such an invention whose claims are not clearly described, whose specification is not sufficiently supported and which is not clearly and sufficiently disclosed in the specification.